Mobility Traffic Profile

Proposed Architecture
Test Architecture

- SGW/PGW used because control plane not a goal now
- Plan B could be a network of FWs and/or Routers/Switches
  - Would remove need for GTP-based traffic and control
- All is virtual (SUT and Test Devices)
Traffic Generation Pattern

- Subscriber ramp up (Session establishments)
- Subscriber ramp down (Session deletions)
- Steady state traffic (Traffic profile)
Test Parameters

- Test is scalable by amount of subscribers
  - 4 Subs used per “App Group”
- Same subscribers are used for the duration of the test
- YouTube used for video streaming (http streaming)
- VoLTE calls will last the duration of the test
- Measurements:
  - Latency, dropped packets, TCP resets, TCP retransmissions, etc ➔ User Plane metrics
Open Issues

- SGW/PGW to use as SUT
  - Open Source?
  - Vendor?
- PCRF required for VoLTE
  - PGW might choke without it
  - Can replace with VoIP over the default bearer